

11, 28, 3, 4, 9, 6, 11, 2, 7, 4, 3, 9, 12, 7, 1, 0, 6, 16, 12, 3, 5, 6, 12, 6, 9. A total of 242, and an average of 7.8 eggs per female.

Experiments were made in confinement to determine the food plants of the beetles. They ate *Portulaca* and *Amaranth* (probably *Euxolus*) readily; *Hibiscus*, *Crotalaria* and *Emilia* very little; cane, koa and *Waltheria* not at all. Grubs in confinement were found to eat into pieces of cane at cut surfaces, and to eat fresh cane roots.

In ovipositing, clusters of from two to a dozen eggs were placed side by side in a crease or wrinkle of the leaf or turned over edge and held in position by an adhesive secretion. The egg is white, smooth, cylindrical, rounded at ends, sometimes slightly curved, 1.2 mm. long, .6 mm. in diameter. The eggs hatch in about 8 days, and the young grubs take 3 or 4 months to grow.

Since 1922, whenever this colony in field 20 has been visited, a few beetles could be found, sometimes more numerous than at other times, but whether there is any definite seasonal occurrence has not yet been determined. At the latest visit by Mr. Hadden and myself, September 14, we secured 3 or 4 dozen beetles in about 20 minutes. The cane at the time was of large size, and searching was difficult except along ditch banks. The beetles we obtained, however, were mostly from the cane leaves, and quite high up at that. No signs of cane leaves having been eaten by the beetles was observed.

Foreign Sphingidae in the Collections of the Experiment Station of the Hawaiian Sugar Planters' Association.

BY O. H. SWEZEY

(Presented at the meeting of October 7, 1926.)

Recently the specimens of foreign Sphingidae in the collections of the Experiment Station of the Hawaiian Sugar Planters' Association were sent to Mr. B. Preston Clark, Boston, Mass., for determination. The list of these follows. They are arranged in the order that they occur in "The Revision of the Sphingidae," by Rothschild and Jordan, *Novitates Zoologicae*, IX, Supplement, 1903.

Subfamily Acherontinae

- 1 *Herse convolvuli* (Linn.). 6 specimens. Hongkong, 1908 (Terry); Los Banos, P. I. (Williams).
- 2 *Acherontia lachesis* (Fabr.). 2 specimens. Los Banos, P. I. (Williams).
- 3 *Acherontia styx* (Westw.). 2 specimens. Los Banos, P. I., ex *Sesamum* (Williams).
- 4 *Psilogramma menephron menephron* (Cramer). 6 specimens. Japan (Jordan); Hongkong, 1908 (Terry); Larat, 1907 (Muir); Ceram, 1909 (Muir).
- 5 *Cocytius duponchel* (Poey). 1 specimen. Tena, Ecuador, 1923 (Williams).

Subfamily Sesiinae

- 6 *Isognathus caricae* (Linn.). 2 specimens. Blairmont, British Guiana, ex *alamanda* vine (Williams).
- 7 *Erinnys alope* (Drury). 2 specimens. Banos, Or., Ecuador, 1923 (Williams).
- 8 *Sesia titan* (Cramer). 2 specimens. Banos, Or., Ecuador, 1923 (Williams).

Subfamily Philampelinae

- 9 *Panacra mydon mydon* Walker. 10 specimens. Hongkong, 1908, ex taro (Terry).
- 10 *Macroglossum insipida* Butler. 1 specimen. Los Banos, P. I., 1916 (Williams).
- 11 *Macroglossum sitiene* Walker. 1 specimen. Hongkong, 1908 (Terry).

Subfamily Choerocampinae

- 12 *Hippotion echeclus* (Bdv.). 1 specimen. Manila, P. I., 1907 (Thompson).
- 13 *Hippotion boerhaviae* (Fabr.). 1 specimen. Los Banos, P. I. (Williams).
- 14 *Theretra clotho* (Drury). 2 specimens. Manila, P. I., 1907 (Thompson); Hongkong, 1908 (Terry).
- 15 *Theretra oldenlandiae* (Fabr.). 1 specimen. Hongkong, 1908 (Terry).
- 16 *Theretra silhetensis* (Walker). 1 specimen. Los Banos, P. I. (Williams).